

XXI.—*Notices of British Fungi*. By the Rev. M. J. BERKELEY, F.R.S., and C. E. BROOME, Esq., F.L.S.

[Continued from ser. 5, vol. vii. p. 131.]

**Agaricus* (*Lepiota*) *cristatus*.

A beautiful form occurred in a fern-case at Blackheath, exactly according with Krombholz's t. 25. f. 26-30. It had not the strong smell of the ordinary form.

1927. *A.* (*Tricholoma*) *Schumacheri*, Fr. Hym. Eur. p. 69; Fl. Dan. t. 2267. fig. 1.

In a hothouse, Apethorpe, Norths. Found once only; agreeing very closely with the figure in Fl. Dan., especially as regards the gills.

1928. *A.* (*Tricholoma*) *porphyroleucus*, Fr. Hym. Eur. p. 75.

Coed Coch, Oct. 1881. The long-stemmed form.

1929. *A.* (*Clitocybe*) *incilis*, Fr. Hym. Eur. p. 94.

Shrewsbury, W. Phillips.

**A.* (*Clitocybe*) *obsoletus*, Batsch, fig. 103.

Hothorpe, Norths., Nov. 23, 1881, Miss R. Berkeley.

Just the plant of Batsch, but the odour varying from that of bitter almonds to that of aniseed. The term *obsoletus* used by Batsch does not refer to an odour less than that of *A. fragrans*, but to the pallid tint as compared with his *A. obsolescens*.

**A.* (*Mycena*) *coharens*, A. & S. p. 163.

Coed Coch. Amongst pine-leaves in great perfection. It has much affinity with *A. balaninus*, B.; but that has the margin of the gills purple. They have, however, the same fulvous bristles on the surface.

1930. *A.* (*Mycena*) *cacisus*, Lasch, in Linn. viii. no. 538.

Hothorpe, Norths., Miss Ruth Berkeley.

Magnificent specimens of this species occurred Nov. 17, 1881, in the above locality. Pileus 3 inches across, stem 4 inches high, root 2 inches long. The specimens were either solitary or subcaespitose; gills purplish, strongly cut out behind. The fig. Bull. t. 518 I is more characteristic of the specimens than that in Fries's 'Icones,' taken from smaller and probably more superficial individuals.

**A.* (*Omphalia*) *buccinalis*, Sow. t. 107.

This is certainly no form of *A. umbelliferus*; and it is too fleshy to be the same as *A. stellatus*. It is, as Sowerby says, not uncommon, and is in great perfection this Jan. 8, 1882.

It has the habit of *A. ptychophyllus*, Cd., a species not noticed by Fries; but the gills are not plicate.

1931. *A.* (*Omphalia*) † *directus*, B. & Br. Albus, gracilimus, pileo gompliformi apice plano, stipite ascendente versus basin pilis longis vestito; lamellis longe decurrentibus.

On dead leaves, Chiselhurst, Nov. 1865. Stem slightly rufous, thread-like, not an inch high. The same species was sent by G. W. Smith, May 4, 1870.

1932. *A.* (*Pleurotus*) *pantoleucus*, Fr. Ic. t. 88. fig. 2.

Blown out of a tree at Coed Coch during the great gale of Oct. 14, 1881. Exactly the plant of Fries, of which a drawing was originally sent from Sweden under the name of *A. spodoleucus*, Ic. t. 87. fig. 1.

1933. *A.* (*Pleurotus*) *revolutus*, Kickx, p. 158.

On a poplar tree, Penzance, T. Pengelly. J. Ralfs (no. 367).

A magnificent Agaric, clearly that of Kickx, but considered by Fries a form of *A. salignus*. It is clearly the same with *A. corticatus*, Saund. & Sm. t. 4. fig. 2. The stem is short, but distinct and swollen.

1934. *A.* (*Pleurotus*) *limpidus*, Fr. Ic. t. 88. fig. 3.

Penzance, J. Ralfs.

1935. *A.* (*Entoloma*) *lividus*, Fr. Hym. Eur. p. 189.

East Dereham, Norfolk, the Rev. J. M. Du Port.

1936. *A.* (*Entoloma*) *Batschianus*, Fr. Hym. Eur. p. 191.

Coed Coch, Oct. 1881, Miss Ruth Berkeley. Spores rather irregular, .0003 inch in diameter.

1937. *A.* (*Entoloma*) *bulbigenus*, B. & Br.; *A. Persoonianus*, Phill. Gard. Chron. 1881, p. 874; *A. sericeus*, Pers. Ic. et Descr. t. 6. f. 2.

East Dereham, Rev. J. M. Du Port. Sibbertoft, Norths., Feb. 1882, Miss Ruth Berkeley. Just the plant of Persoon, who indicates in his figure the sclerotoid bodies at the base, though he does not mention them in the text. The name of *A. Persoonianus* requires to be changed, as there is a species of similar name. Fr. Hym. Eur. p. 25. Spores .0004 to .0005 inch in diameter.

1938. *A.* (*Entoloma*) *speculum*, Fr. Hym. Eur. p. 197.

Coed Coch, Oct. 1881. Spores irregular, .0005 inch in diameter.

1939. *A.* (*Pholiota*) *verruculosus*, Lasch, Fr. Hym. Eur. p. 221.

King's Cliffe. A subspecies, according to Fries, of *A. squarrosus*.

**A.* (*Pholiota*) *caperatus*, P. Syn. p. 293.

Var. *macropus*, Fr. Hym. Eur. p. 215.

King's Cliffe.

† Non tuba *directi*, non aeris cornua flexi.—Ov. *Met.*

1940. *A.* (*Pholiota*) *dissimulans*, B. & Br. Pileo primum erebio, campanulato obtusissimo vix viscidulo hygrophano demum explanato albido, margine involuto; stipite deorsum incrassato candido, basi gossypino; annulo erecto ut plurimum persistente; lamellis pallidis argillaceis sinuato-adiutis demum decurrentibus.

On sticks of hawthorn and sloe. Hothorpe, Miss R. Berkeley.

Pileus at first of the colour of *A. erebius*, but at length becoming pale and expanded, about 1 inch across. Stem fistulose, with transverse dissepiments. Gills at length decurrent. It ought perhaps to be recorded in the section *Tubaria*, which, however, is a purely artificial division, and the ring is against this. It must be placed at the head of the hygrophanous *Pholiota*, though it is not allied to the species in that division.

**A.* (*Inocybe*) *Bongardi*, Fr. Myc. Eur. p. 229.

Coed Coch, 1881. Spores bulging on one side, as in *Eunotia*, .0005 inch long.

**A.* (*Inocybe*) *flocculosus*, B. Eng. Fl. v. p. 97.

Coed Coch, Oct. 1881. Spores irregular, .0003 inch in diameter, sometimes slightly elongated.

**A.* (*Inocybe*) *scabellus*, Fr.

Hothorpe, Miss R. Berkeley, Nov. 23, 1881, with *A. scaber*.

This does not seem to be a common species; but we were glad to get it again, as it enables us to ascertain that it has granulated spores, like *A. fastigiatus*.

1941. *A.* (*Inocybe*) *caesariatus*, Fr. Hym. Eur. p. 234.

Coed Coch, Oct. 1881. Spores even, .0004 long.

1941 bis. *A.* (*Hebeloma*) *senescens*, Batsch, fig. 197.

Amongst fir trees, Gwrwch Castle, exactly resembling the figure of Batsch, which does not seem to have been noticed by Fries.

Pileo e convexo explanato leviter glutinoso ochraceo-fulvo, extremo margine subtiliter tomentoso albo; stipite primum deorsum bulboso fusco, dein, excepto apice candido tomentoso, squamuloso, solido; lamellis confertis primum pallidis adnexas, dein cinnamomeis; carne alba, odore acri.

Sometimes semiglobose; stem 5 inches high, always dark below; pileus 3 inches or more in diameter.

1942. *A.* (*Hebeloma*) *subcollariatus*, B. & Br. Pileo convexo subcarnoso pallido centro subfusco leviter glutinoso, velo floccoso evanescente; stipite farcto denum subtiliter fistuloso basi brunneo pulverulento; lamellis ventricosis secedentibus collarium breve interruptum formantibus argillaceis acie candidis.

On naked soil, Sibbertoft, Oct. 1881; about an inch in diameter. Allied to *A. mesophaeus*, of which we were at first inclined to consider it a variety. Spores elliptic, uninucleate, $\cdot 0005$ inch long.

**A.* (*Hebeloma*) *firmus*, P. Ic. et Desc. tab. 5. figs. 3, 4.

This appears to be a very variable species. The figure in the 'Icones' does not accord in several respects with the characters in *Hym. Eur.* The pileus is neither campanulate nor umbonate, but at length depressed. An Agaric, certainly referable to this species, occurred at Hothorpe, Norths., Feb. 8, 1882, in which, though the essential characters are the same, the pileus is at first of a deep brown, but hygrophanous, changing to tan-colour. The stem obviously though minutely scaly; the gills adnate with a minute decurrent tooth, at first pale, then argillaceous, their margin distinctly edged with snow-white particles.

1943. *A.* (*Flammula*) *vinosus*, Bull. t. 54.

Abundant on the Morfa, Conway, Miss R. Berkeley. A very interesting species which has scarcely been gathered since the time of Bulliard. Spores pale umber, $\cdot 0002$ inch long, shortly ovate.

1944. *A.* (*Flammula*) *astragalinus*, Fr. *Hym. Eur.* p. 248.

Sent from Glamis by the Rev. J. Stevenson, in whose specimens the flesh was intensely red, and when bruised, as described by Fries, became black. Perhaps the most beautiful of Agarics.

1945. *A.* (*Flammula*) *apicreus*, Fr. *Hym. Eur.* p. 249.

Coed Coch, 1881. Very acrid.

1945 *bis.* *A.* (*Naucoria*) *lugubris*, Fr. *Hym. Eur.* p. 253.

Coed Coch. A single specimen only, in a mountain-fir wood.

Spores very irregular, $\cdot 0002$ to $\cdot 0003$ inch long, subglobose.

1946. *A.* (*Naucoria*) *melinoides*, Fr. non Bull., excepta 560. fig. 1 F, the other figures belonging to *A. hypnorum*.

Kew, Dr. Cooke. Spores elliptic, $\cdot 0006$ inch long, with one or two nuclei.

1947. *A.* (*Naucoria*) *sideroides*, Bull. t. 588.

Amongst moss, Sibbertoft, Nov. 10, 1881. Spores $\cdot 0004$ to $\cdot 0005$ inch long, half as much wide. This and the two neighbouring species, though externally resembling each other, have very different spores.

1948. *A.* (*Naucoria*) *cerodes*, Fr. *Hym. Eur.* p. 257.

Amongst moss, Sibbertoft, Sept. 23, 1881. Spores $\cdot 0003$ inch long.

1949. *A.* (*Crepidotus*) *epigæus*, Pers. Syn. p. 377; *A. depluens*, Batsch, fig. 122.

On the clay of the marlstone, Hothorpe, Nov. 10, 1881, Miss Ruth Berkeley. The spores of this species are oblong, $\cdot 0004$ inch long, not irregular, and more or less angular, as in the plant usually referred to *A. depluens*, as figured by Hoffmann; so that its affinities seem rather to be with *Crepidotus* than *Claudopus*.

The present is exactly the plant of Batsch; and we think it better to leave the name with what has formerly been considered his species, and retain that of Persoon. *A. depluens* occurred in 1881, on sawdust, at Coed Coch, just as it is figured by Hoffmann. It has sometimes a distinct stem, as we have ourselves found it. The gills in *A. epigeus* are no longer red when dry.

1950. *A.* (*Hypholoma*) *lacrymabundus*, Fr. Ic. 134. fig. 1.

The species figured in the 'Icones' occurred last October at Coed Coch and near Hereford. What has usually passed under this name is *A. velutinus*, P. We find the spores $\cdot 0003$ – $\cdot 0004$ inch long, in *A. pyrrotrichus* $\cdot 0005$ – $\cdot 0006$.

**A.* (*Hypholoma*) *cascus*, Fr. Hym. Eur. p. 294. What we described in the "Notices" as an abnormal state of *A. appendiculatus* is undoubtedly this species.

1951. *A.* (*Hypholoma*) *piluleformis*, Bull. t. 112.

Penzance, Mr. Ralfs. This is possibly a veil-bearing state of the very common *A. spadiceus*, though Fries says "velum etiam primitus absolute nullum." We are inclined rather to consider it the young of *A. hydrophilus*, Bull. t. 511; still we think it right to record its occurrence in Cornwall. We do not suppose with Fries that it has any thing to do with *Bolbitius*.

1952. *A.* (*Psilocybe*) *hebes*, Fr. Hym. Eur. p. 303.

On grass by the side of a chestnut-plantation amongst dead leaves. Hothorpe, Miss R. Berkeley, Nov. 19, 1881.

Not exactly the form figured by Fries in the 'Icones,' as the stem is taller; but the colour of the hygrophaneous pileus is the same exactly, the spores atropurpureous. Pileus at first obtuse; but in drying it becomes spuriously and minutely umbonate. Spores $\cdot 0007$ inch long.

**A.* (*Psathyra*) *corrugis*, P. Syn. p. 424.

Shanklin. The short form figured by Corda in Sturm's Deutschl. Fl. under the name of *A. vinosus*.

1953. *A.* (*Psathyra*) *gossypinus*, Bull. t. 425. fig. 2.

Coed Coch, Oct. 1881. Spores $\cdot 0004$ to $\cdot 0005$ long.

1954. *A.* (*Psathyra*) *nolitangere*, Fr. Hym. Eur. p. 309.

Amongst moss. Sibbertoft, Sept. 3, 1881. Spores $\cdot 00055$ long, more elongated than in *A. gossypinus*. *A. pennatus*, Quélet, = *A. semivestitus*, B. & Br.

1955. *A. (Psathyra) microrhizus*, Laseh, no. 468.

On the naked soil. Sibbertoft, Sept. 3, 1881. Gregarious, varying in size from a few lines to $1\frac{1}{4}$ inch, when it approaches the finer forms of *A. gossypinus*.

1956. *A. (Psathyrella) trepidus*, Fr. Syst. i. p. 238.

Hothorpe, Miss R. Berkeley. Pers. Myc. Eur. t. 29. fig. 1 is an excellent figure of this species.

**Coprinus aratus*, B. Outl. p. 176.

A group of this fine species of large size occurred at Hothorpe, Dec. 5, 1881.

As the character given before was drawn up from a solitary specimen gathered in a very different situation, it requires a little amendment. The disk is sometimes rugose, sometimes even; the gills are at first attached, but so slightly that they easily part from the stem, so as to appear free; but they are still connected at the base, as if there were a slight collar. For "lamellis liberis," "lamellis secedentibus" should be substituted.

1957. *C. alternatus*, Fr. Hym. Eur. p. 327; Fl. Dan. 1961. fig. 1.

East Dereham, Rev. M. Du Port, at the same time with *A. lividus*.

This is scarcely a *Coprinus*, but rather a *Psathyrella*.

1958. *C. papillatus*, Fr. Hym. Eur. p. 326.

Shrewsbury, P. M. Berkeley. In a fern-case.

1959. *Cortinarius (Phlegmacium) serarius*, Fr. Hym. Eur. p. 350.

Glamis, Rev. J. Stevenson. A small form.

1960. *C. (Dermocybe) cotoneus*, Fr. Hym. Eur. p. 372.

Clifton, C. Bucknall.

1961. *Parillus Fagi*, B. & Br. Eximie gregarius, crispus, sursum pallidus, subtus aurantius, lamellis crispatis aurantiis.

On a beech-stump. Coed Coch. Forming a wide crisped mass of great beauty, very different in appearance from *P. panuoides*, which is confined to fir wood or sawdust.

1962. *Hygrophorus fusco-albus*, Fr. Hym. Eur. p. 410.

Amongst moss. Gwrwch, 1881. Remarkable for its distinct floccose veil.

**Marasmius Wynnei*, B. & Br.

A good figure of this beautiful species is given in 'Fungi Tridentini' by Bresadola under the name of *Clitocybe xanthophylla*.

**M. scorteus*, Fr. Hym. Eur. p. 468.

Penzance, J. Ralfs.

1963. *Polyporus Michelii*, Fr. Hym. Eur. p. 533.

Penzance, J. Ralfs.

1964. *P. acanthoides*, Fr. Hym. Eur. p. 540.

Penzance, J. Ralfs.

1965. *P. pectinatus*, Kl. in Linn. viii. p. 485; Fr. Hym. Eur. p. 559.

Penzance, J. Ralfs. We follow Fries, though with some hesitation, in considering the European forms figured by Quélet identical with the Indian species. It cannot, however, be referred either to *P. salicinus* or *P. conchatus*.

1966. *P. velutinus*, Fr. Syst. i. p. 368.

Penzance, J. Ralfs, who has also sent *P. hirsutus*.

1967. *P. mucidus*, Fr. Hym. Eur. p. 577.

Penzance, J. Ralfs. On the under surface of very decayed firs.

1968. *Dædalea cinerea*, Fr. Syst. i. p. 336.

Penzance, J. Ralfs.

The thick substance separates this from every form of *D. unicolor*, also the inciso-strigose surface of the pileus.

1969. *Hydnum Weinmanni*, Fr. Hym. Eur. p. 613.

Penzance, J. Ralfs.

1970. *H. aureum*, Fr. Hym. Eur. p. 613.

Penzance, J. Ralfs. A fine species, with a merulioid aspect.

1971. *H. denticulatum*, P. Myc. Eur. ii. p. 181.

Penzance, J. Ralfs.

1972. *Irpex carneus*, Fr. Hym. Eur. p. 622.

Penzance, J. Ralfs. When perfect it is a true *Irpex*.

1973. *Phlebia livelloso* (P.), *Dædalea livelloso*, P. Myc. Eur. iii. p. 2, tab. xvii. figs. 2, 3.

Penzance, J. Ralfs. This is not noticed by Fries in Hym. Eur.; but it is very distinct.

**Stereum vorticolum*, Fr. Hym. Eur. p. 639.

Noble specimens of this very beautiful species, remarkable for its costate hymenium, were sent from Penzance by Mr. Ralfs, who is in a position in Cornwall to send many more novelties.

1974. *Corticium umbrinum*, A. & S. p. 281.

Penzance, J. Ralfs; Hothorpe, Feb. 1882.

1975. *C. maculeforme*, Fr. Hym. Eur. p. 656.

Penzance, J. Ralfs.

**Sparassis crispa*, Fr. Syst. i. p. 465.

Penzance, J. Ralfs.

This seems to be a southern species, not having occurred in this country north of Norfolk.

1976. *Clavaria pyxidata*, P. Comm. t. i. fig. 1.

Penzance, J. Ralfs.

1977. *Calocera corticalis*, Fr. Hym. Eur. p. 681; Batsch, fig. 162.

Penzance, J. Ralfs.

1978. *Penicillium macrosporum*, B. & Br. Aurantiacum, sporis globosis maximis.

On a decaying *Lactarius*, J. D. C. Sowerby, whose drawing is in the collection of the British Museum.

1979. *Cercospora Bloxami*, B. & Br. Maculis orbicularibus pallidis; sporis elongato-fusiformibus utrinque acuminatis multiseptatis.

On decaying leaves of turnips. Twycross, Rev. A. Bloxam. Formerly distributed as *Septoria Bloxami*.

1980. *Ovularia elliptica*, B. & Br. Gard. Chron. 1881, ii. p. 340 cum icone.

On various lilies. Spores $\cdot 0012$ long.

1981. *O. syringæ*, B. Gard. Chron. 1881, ii. p. 665 cum icone.

On leaves of *Syringa*, Aberdeenshire, A. Stephen Wilson.

1982. *Mystrosporium alliorum*, B. Gard. Chron. 1878.

On onions. Culver, Exeter.

1983. *Puccinia oxyricæ*, Buch. White, MSS.

On leaves of *Oxyria reniformis*. Ben Blabhein, Skye, Dr. Buchanan White, Sept. 1881. Spores, including the short hyaline stem, $\cdot 0024$ inch long; the divisions of the head subglobose, even.

1984. *Glaeosporium Lindemuthianum*, Saccardo, Fung. It. 1032.

On pods of *Phaseolus*. Very destructive at Sibbertoft in 1881.

1985. *Leotia chlorocephala*, Schwein. Syn. p. 88.

Hampshire, Miss Broadwood. The tint of green is so dark that it is nearly black, so that the house-painters might call it invisible green. *L. atrovirens*, P., occurred at Coed Coch in Sept. 1881; but it is clearly merely a state of *Geoglossum viride*, which accompanied it. The specimens agreed in every respect with the figure in Myc. Eur. t. 9. figs. 1-3.

1986. *Sphaeria leprosa*, P.

Penzance, J. Ralfs. Spores $\cdot 0008$ inch long, narrow.

**Valsa cratægi*, Currey.

On dead twigs. Spores $\cdot 0012$ long.

1987. *Sphaeria aggregata*, Lasch in Kl. Herb. Myc. ii. no. 541; Fuckel, no. 977.

On *Euphrasia officinalis*. Penzance, J. Ralfs.

1988. *Didymium effusum* (Lk.).

On fronds of hart's tongue. W. G. Smith.